

SUDEYKIN, V.A.; KHARLAMOV, V.P.; SUDEYKINA, M.V.

Studying the migration of gray rats by means of radioactive  
tracers in a large city. Zool. zhur. 41 no.9-1409-1412  
S '62. (MIRA 15:11)

1. Moscow Urban Disinfection Station and Medical Service of the  
Military Marine Fleet.  
(Animal migration) (Moscow--Rats)

SHURA-BURA, B.L.; KHARLAMOV, V.P.

Autoradiography as a method of tracing labeled rodents and their ectoparasites in studying migration problems. Zool. zhur. 40 no. 2:258-263 F '61. (MIRA 14:2)

1. Department of Epidemiology, S.M. Kirov Military Medical Academy (Leningrad).  
(Animals, Marking of) (Autoradiography)  
(Parasites—Rodentia)

SOV/16-59-6-39/46

17(2,9)

AUTHOR: Kharlamov, V.P.

TITLE: The Possibility of Using Fish From Far East Fisheries for Preparing Bacteriological Nutrient Media. Author's Summary.

PERIODICAL: Zhurnal mikrobiologii, epidemiologii i immunobiologii, 1959, <sup>36</sup>Nr 6, p 132 (USSR)

ABSTRACT: Studies were made of the ability of fish enzymes to break down the proteins of fish from Far East Fisheries and of the possibility of using the products of this splitting process in preparing nutrient media. The fish studied were, among others, flounders and mackerel, also test samples of food fish protein from the Belkovy zavod (Protein Plant) of the Putyatinskiy rybokonservny kombinat (Putyatino Fish-canning Kombinat). The fish digest was prepared as follows: the fish were beheaded, detailed and gutted, carefully washed, placed in water (2 liters of water per kg of fish) and boiled for 5 minutes. The fish broth was filtered through gauze and cooled to 40-30°C. The bones were removed from the fish which was then put through a mincer and covered with the broth. To this was added the gastric or intestinal stuffing and chloroform. The time taken to effect full break-down of protein

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SOV/16-59-6-39/46

The Possibility of Using Fish From Far East Fisheries for Preparing Bacteriological Nutrient Media. Author's Summary.

was taken as the index to the fish ferments' activity. The ready media were checked for the number of colonies (and their content) and the preservation of biochemical and serological properties on the part of various bacterial strains after 10 sub-cultures on the media. The strains tested were: Salmonella typhosa, Salmonella paratyphi, Shigella flexneri and Escherichia coli. The results of the tests showed that the fish enzymes broke down the fish protein quite satisfactorily and could therefore be used for preparing peptone from fish. The fish digests also proved quite satisfactory for the preparation of bacteriological nutrient media.

ASSOCIATION: Voenno-meditsinskaya ordena Lenina akademiya imeni Kirova (Order of Lenin Military Medical Academy imeni Kirov)

SUBMITTED: May 22, 1958

Card 2/2

KHARLAMOV, V. P.

Plodovo-iagodnyi sad Krasnorechenskogo sovkhoza [Fruit and berry orchard of Krasnorechensk State Farm]. Khabarovsk, 1953. 28 p.

SO: Monthly List of Russian Accessions, Vol. 6, No. 5, August 1953

KHARLAMOV, V. P., Cand Agr Sci -- (diss) "Fertilization of fruit-berry crops in the sod-podsolic zone." Moscow, 1960. 18 pp; (Moscow Order of Lenin Agricultural Academy im K. A. Timiryazev); 120 copies; price not given; list of author's works on pp 17-18 (15 entries); (KL, 17-60, 164)

KHARLAMOV, V.P., kand.sel'skokhozyaystvennykh nauk

Expand the acreage of forage lupine in White Russia. Zemledie 24  
no.3:49-51 Mr '62. (MIRA 15:3)

1. Zaveduyushchiy Pruzhanskim gosudarstvennym sortoispytatel'ny  
uchastkom plodovo-yagodnykh kul'tur.  
(White Russia--Lupine)

EMISSANOV, Nikolay Filippovich; KHARLANOV, V.M., red.

[Erecting apartment houses with built-up roofs in Yakutia]  
Vozvedenie zhilykh zdaniy s sovmeshchennymi kryshami v  
Yakutii. Iakutsk, Iakutskoe knizhnoe izd-vo, 1963. 78 p.  
(MIRA 1718)

SOV/127-58-2-25/26

AUTHORS: Belash, F.N., Doctor of Technical Sciences, Professor; Delitsina, G.B., Karmazin, V.I. and Kharlamov, V.S., Candidates of Technical Sciences, Azarov, A.L., Dolotova, I.A. and Rovenskiy, I.I., Engineers

TITLE: The Concentration and Agglomeration of Minerals in North-Western Regions of the USSR (Obogashcheniye i aglomeratsiya poleznykh iskopayemykh Severo-Zapadnykh rayonov SSSR). Leningrad, Mekhanobr, 1957, vol. 102, 344 pp. with illustrations. Circulation 1,700. Price 12 rubles. (Leningrad, Mekhanobr, 1957, vyp. 102.344 str.s ill. Tirazh 1,700. Tsena 12 rub.)

PERIODICAL: Gornyy zhurnal, 1958, Nr 12, pp 67 - 69 (USSR)

ABSTRACT: This is a review of the above mentioned book by F.N. Belash et al

Card 1/1



BELASH, F.N., prof.; KHARLAMOV, V.S., kand. tekhn.nauk  
KIRNOSOV, E.G., inzh.

Middlings of the Kamsh-burun factory as a subject for gravity  
concentration. Izv. vyss. ucheb. zav.; gor. zhur. no.4:146-151  
'61. (MIRA 14:6)

1. Rekomendovana kafedroy obogashcheniya poleznykh iskopayemykh  
Krivorozhskogo gornorudnogo instituta. 2. Krivorozhskiy  
gornorudnyy institut (for Belash, Kharlamov, Kirnosov).
3. Kamyshburunskiy zhelezorudnyy kombinat (for Burova).  
(Kerch Peninsula--Ore dressing)

*Study*  
*point*  
KHARLAMOV, V. S., Cand Tech Sci -- (diss) "Investigation of the  
carbon flotation in electrolytes." Len, 1957. 15 pp. with graphs.  
(Min Higher Ed USSR, Leningr *Order of Lenin and Labor Red Banner*  
Min Inst im G. V. Plekhanov, Chair *English Min Resources*). (KL,  
9-58, 120)

- 102 -

*KHARLAMOV, V. S.*

137-1958-3-4526

Translation from: Referativnyy zhurnal, Metallurgiya, 1958, Nr 3, p 7 (USSR)

AUTHOR: Kharlamov, V. S.

TITLE: On Possible Causes Producing Flotation of Minerals by Means of Electrolytes (O vozmoznykh prichinakh, vyzyvayushchikh flotatsiyu mineralov elektrolitami)

PERIODICAL: Obogashcheniye rud, 1957, Nr 2, pp 25-30

ABSTRACT: In order to explore the causes of flotation of minerals by electrolytes (E), experimental flotation of galenite, molybdenite, pyrite, calcite, and other minerals was carried out in solutions of  $\text{Na}_2\text{SO}_4$ ,  $\text{NaCl}$ , and  $\text{NaNO}_3$ . Simultaneously, experiments were performed to determine the froth-producing qualities of all the E's mentioned. Experiments showed that galenite, pyrite, and other similar minerals are not floatable by any of the E's tested. Talcum, S, and others are floatable by all frothing E's. It may also be stated that the formation of froth is not a determining cause of flotation by an E, and it must be recognized, therefore, that the presence of salts reduces the hydrophile properties of the surface, and that it is this fact which is the primary cause of flotation. It may be assumed that the E, while

Card 1/2

On Possible Causes Producing Flotation of Minerals (cont.)

changing the properties of the double electrical surface film, also changes the degree of its hydration. The occurrence of dehydration may be explained by the phenomena taking place on the surface and consisting only in changes in the electric properties of the latter, and by the changes of the liquid phase throughout the entire volume. This change of properties in the liquid phase of the volume is one of the factors responsible for flotation by an E. The last assumption is in accord with data obtained from flotation experiments.

A. Sh.

Card 2/2

KHARLAMOV, V.S., kand.tekhn.nauk

Comparing the industrial indices of coal flotation in electrolytes  
and with sulfonated kerosene. Izv.vys.ucheb.zav.; gor.zhur.  
no.1:138-143 '60. (MIRA 13:6)

1. Krivorozhskiy gornorudnyy institut. Rekomendovana kafedroy  
obogazhcheniya poleznykh iskopayemykh.  
(Coal preparation) (Flotation--Equipment and supplies)

KHARLAMOV, V.S., kand. tekhn. nauk

Desulfuration of coals by saline flotation. Sbor. nauch. trud.  
KGRL no.10:349-350 '61 (MIRA 17:8)

KHARLAMOV, V.S., kand.tekhn.nauk

Application of varying statistics to technological sampling of  
iron quartaites. Izv. vys. uch. zav.; gor. zhur. 5 no.6:188-  
193 '62. (MIRA 15:9)

1. Krivorozhskiy gornorudnyy institut. Rekomendovana kafedroy  
obogashcheniya poleznykh iskopayemykh.  
(Ores--Sampling and estimation) (Iron ores)

KHARLAMOV, V.S.

Accuracy in the determination of technological indices of iron  
quartzite dressing. Obog.rud 7 no.1:45-48 '62. (MIRA 15:3)

1. Krivorozhskiy gornorudnyy institut.  
(Ore dressing) (Iron ores)

BELASH, F.N.; KAMENEV, P.Ya.; FAYNSHTEYN, E.G.; KHARLAMOV, V.S.;  
ZAYTSEV, I.F.

Radiometric dressing of pieces of iron ore. Sbor. nauch. trud.  
KGRI no.13:208-211 '62. (MIRA 16:8)

1. Krivorozhskiy gornorudnyy institut (for Kharlamov).
2. Ukrainskiy proyektno-konstruktorskiy i nauchno-issledovatel'-  
skiy institut po obogashcheniyu i briktirovaniyu ugley (for  
Zaytsev).

(Iron ores) (Ore dressing)  
(Radioisotopes--Industrial applications)



KHARLAMOV, V.S., dotsent, kand. tekhn. nauk

Efficient flow sheets for the dressing of Belozerska deposit  
iron ores. Sbor. nauch. trud. KGRI no.17:76-94 '63.  
(MIRA 17:1)

KHARLAMOV, V.S., dotsent, kand. tekhn. nauk; SKOROBOGAT'KO, M.P., inzh.

Analysis of the connection between the physical properties  
of petrographic varieties of ores and their iron content.  
Sbor. nauch. trud. KGRI no.17:122-127 '63. (MIRA 17:1)

KHARLAMOV, V.S., dotsent, kand.tekhn.nauk; BASS, M.Ya., inzh.

The time of separation is an important parameter for regulating the technological indices of concentration in heavy suspensions. Sbor.nauch.trud. KGBI no. 21:247-251 '63. (MIRA 17:7)

SHINKORENKO, Stanislav Fedorovich; MARGULIS, Vladimir Solomonovich;  
NIKOLAYENKO, Viktor Pavlovich; KHARLAMOV, Vadim Sergeyevich;  
DROZHILOV, Lev Aleksandrovich; GUBIN, Georgiy Viktorovich;  
OSTAPEUKO, Pavel Yefimovich; KARAMZIN, V.I., prof., doktor  
tekhn. nauk, retsenzent; RYKOV, N.A., otv. red.

[Handbook on the dressing and sintering of ferrous metal  
ores] Spravochnik po obogashcheniiu i aglomeratsii rud  
Chernykh metallov. [By] S.F.Shinkorenko i dr. Moskva,  
Nedra, 1964. 571 p. (MIRA 18:2)

KHARLAMOV, Vadim Sergeyevich; NIKOLAYENKO, Viktor Pavlovich;  
RYKOV, N.A., div. red.

[Dressing of ferrous metal ores] Obogashchenie rud chernykh  
metallov. Moskva, Nedra, 1965. 239 p. (MIRA 18:4)

122 /

KHARLAMOV, Y.T.

Methods of preparing analytical samples of alkali metals for vacuum  
extraction. Trudy kom.anal.khim. 10:117-121 '60. (MIRA 13:8)  
(Alkali metals)

DYKHOVA, Z.I.; MATYUSHINA, N.A.; MOSKVINA, M.I.; PACHEN'YEVA, G.I.;  
KHEARLAMOV, V.T.; CHIRKOV, Ye.P.; FOMIN, G.; FILIP, I.

[Radioactive isotopes and labeled compounds; a catalog]  
Radioaktivnye isotopy i mechenye soedineniya; katalog.  
Moskva, Atomizdat, 1967. 341 p. (MIRA 18:1)

1. Sovet ekonomicheskoy vzaimopomoshchi. Pstrogonnaya komissiya po ispol'zovaniyu energii v mirovkh tsolyakh.



BAKHMUTSKIY, F.I., inzh.; OROKHOVSKIY, I.I.; KHARLAMOV, V.V., inzh.;  
ROZENFEL'D, V.Ye., doktor tekhn.nauk; STAROSKOL'SKIY, N.A.,  
kand.tekhn.nauk, dots.

Mine haulage by means of high-frequency electric locomotives.  
Ugol' 35 no.6:29-33 Je '60. (MIRA 13:7)

1. Dongsiprouglemash (Bakhmutskiy, Orokhovskiy, Kharlamov).
  2. Moskovskiy energeticheskiy institut (for Rozenfel'd, Staroskol'skiy).
- (Mine railroads)  
(Electric locomotives)

1. 2. 3. 4. 5. 6. 7. 8. 9. 10. 11. 12. 13. 14. 15. 16. 17. 18. 19. 20. 21. 22. 23. 24. 25. 26. 27. 28. 29. 30. 31. 32. 33. 34. 35. 36. 37. 38. 39. 40. 41. 42. 43. 44. 45. 46. 47. 48. 49. 50. 51. 52. 53. 54. 55. 56. 57. 58. 59. 60. 61. 62. 63. 64. 65. 66. 67. 68. 69. 70. 71. 72. 73. 74. 75. 76. 77. 78. 79. 80. 81. 82. 83. 84. 85. 86. 87. 88. 89. 90. 91. 92. 93. 94. 95. 96. 97. 98. 99. 100. 101. 102. 103. 104. 105. 106. 107. 108. 109. 110. 111. 112. 113. 114. 115. 116. 117. 118. 119. 120. 121. 122. 123. 124. 125. 126. 127. 128. 129. 130. 131. 132. 133. 134. 135. 136. 137. 138. 139. 140. 141. 142. 143. 144. 145. 146. 147. 148. 149. 150. 151. 152. 153. 154. 155. 156. 157. 158. 159. 160. 161. 162. 163. 164. 165. 166. 167. 168. 169. 170. 171. 172. 173. 174. 175. 176. 177. 178. 179. 180. 181. 182. 183. 184. 185. 186. 187. 188. 189. 190. 191. 192. 193. 194. 195. 196. 197. 198. 199. 200. 201. 202. 203. 204. 205. 206. 207. 208. 209. 210. 211. 212. 213. 214. 215. 216. 217. 218. 219. 220. 221. 222. 223. 224. 225. 226. 227. 228. 229. 230. 231. 232. 233. 234. 235. 236. 237. 238. 239. 240. 241. 242. 243. 244. 245. 246. 247. 248. 249. 250. 251. 252. 253. 254. 255. 256. 257. 258. 259. 260. 261. 262. 263. 264. 265. 266. 267. 268. 269. 270. 271. 272. 273. 274. 275. 276. 277. 278. 279. 280. 281. 282. 283. 284. 285. 286. 287. 288. 289. 290. 291. 292. 293. 294. 295. 296. 297. 298. 299. 300. 301. 302. 303. 304. 305. 306. 307. 308. 309. 310. 311. 312. 313. 314. 315. 316. 317. 318. 319. 320. 321. 322. 323. 324. 325. 326. 327. 328. 329. 330. 331. 332. 333. 334. 335. 336. 337. 338. 339. 340. 341. 342. 343. 344. 345. 346. 347. 348. 349. 350. 351. 352. 353. 354. 355. 356. 357. 358. 359. 360. 361. 362. 363. 364. 365. 366. 367. 368. 369. 370. 371. 372. 373. 374. 375. 376. 377. 378. 379. 380. 381. 382. 383. 384. 385. 386. 387. 388. 389. 390. 391. 392. 393. 394. 395. 396. 397. 398. 399. 400. 401. 402. 403. 404. 405. 406. 407. 408. 409. 410. 411. 412. 413. 414. 415. 416. 417. 418. 419. 420. 421. 422. 423. 424. 425. 426. 427. 428. 429. 430. 431. 432. 433. 434. 435. 436. 437. 438. 439. 440. 441. 442. 443. 444. 445. 446. 447. 448. 449. 450. 451. 452. 453. 454. 455. 456. 457. 458. 459. 460. 461. 462. 463. 464. 465. 466. 467. 468. 469. 470. 471. 472. 473. 474. 475. 476. 477. 478. 479. 480. 481. 482. 483. 484. 485. 486. 487. 488. 489. 490. 491. 492. 493. 494. 495. 496. 497. 498. 499. 500. 501. 502. 503. 504. 505. 506. 507. 508. 509. 510. 511. 512. 513. 514. 515. 516. 517. 518. 519. 520. 521. 522. 523. 524. 525. 526. 527. 528. 529. 530. 531. 532. 533. 534. 535. 536. 537. 538. 539. 540. 541. 542. 543. 544. 545. 546. 547. 548. 549. 550. 551. 552. 553. 554. 555. 556. 557. 558. 559. 560. 561. 562. 563. 564. 565. 566. 567. 568. 569. 570. 571. 572. 573. 574. 575. 576. 577. 578. 579. 580. 581. 582. 583. 584. 585. 586. 587. 588. 589. 590. 591. 592. 593. 594. 595. 596. 597. 598. 599. 600. 601. 602. 603. 604. 605. 606. 607. 608. 609. 610. 611. 612. 613. 614. 615. 616. 617. 618. 619. 620. 621. 622. 623. 624. 625. 626. 627. 628. 629. 630. 631. 632. 633. 634. 635. 636. 637. 638. 639. 640. 641. 642. 643. 644. 645. 646. 647. 648. 649. 650. 651. 652. 653. 654. 655. 656. 657. 658. 659. 660. 661. 662. 663. 664. 665. 666. 667. 668. 669. 670. 671. 672. 673. 674. 675. 676. 677. 678. 679. 680. 681. 682. 683. 684. 685. 686. 687. 688. 689. 690. 691. 692. 693. 694. 695. 696. 697. 698. 699. 700. 701. 702. 703. 704. 705. 706. 707. 708. 709. 710. 711. 712. 713. 714. 715. 716. 717. 718. 719. 720. 721. 722. 723. 724. 725. 726. 727. 728. 729. 730. 731. 732. 733. 734. 735. 736. 737. 738. 739. 740. 741. 742. 743. 744. 745. 746. 747. 748. 749. 750. 751. 752. 753. 754. 755. 756. 757. 758. 759. 760. 761. 762. 763. 764. 765. 766. 767. 768. 769. 770. 771. 772. 773. 774. 775. 776. 777. 778. 779. 780. 781. 782. 783. 784. 785. 786. 787. 788. 789. 790. 791. 792. 793. 794. 795. 796. 797. 798. 799. 800. 801. 802. 803. 804. 805. 806. 807. 808. 809. 810. 811. 812. 813. 814. 815. 816. 817. 818. 819. 820. 821. 822. 823. 824. 825. 826. 827. 828. 829. 830. 831. 832. 833. 834. 835. 836. 837. 838. 839. 840. 84

100-120°C. The synthesis of mixed polyarylates was accomplished by polycondensation of isomers of dihydroxynaphthalene, diam, and the estolates of terephthalic, isophthalic, adipic and sebacic acids in  $\text{H}_2\text{SO}_4$  medium, at temperatures ranging from 150 to 200°C for periods of 1 to 12 hours. The polyarylates were used as the base of terephthalic acid were mostly of mixed crystalline-amorphous structure and had softening points from 500-1300, the highest belonging to the 1,3-isomer. Where isophthalic acid was the base, the softening point had a range of 400-250, and it showed a still lower range of 190-50 with adipic acid, going still further down with sebacic acid, ranging from 350 to -180. Thus it seems that increasing the number of methylene groups in the aliphatic dicarbonic acids from 4 to 8 causes

Card 1/2



BESPROZVANNYY, M.A.; KOMONOV, N.F.; KHARLAMOV, V.V.

Formation of free radicals in the catalytic reduction of carbon  
tetrachloride. Izv. AN SSSR. Ser. khim. no.8:1345-1350 '65.  
(MIRA 18:9)

1. Institut organicheskoy khimii im. N.D. Zelinskogo AN SSSR.

VLASENKO, V.M.; PISAREV, V.F.; SOBOLEVA, A.S.; KHARLANOV, V.V.;  
YUZEFOVICH, G.Ye.

Industrial catalytic purification of a nitrogen-hydrogen mixture  
by the removal of carbon monoxide and carbon dioxide. Khim.  
prom. no.8:583-586 Ag '63. (MIRA 16:12)

KHARLAMOV, Ya.I.

Unusual precipitations. Meteor. i gidrol. no.8:47 Ag '57.  
(Snow) (MLRA 10:8)







KHARLAMOV, Ye.G., inzh.

Effect of the blocking of the nozzle rim section of a turbine on  
the consumption coefficient. Energomashinostroenie 9 no.10:  
43-45 0 '63. (MIRA 16:10)

SAVCHENKO, V.F.; KHARLAMOVA, A.I., mladshiy nauchnyy sotrudnik

Operation of a device for rapid determination of the technical  
ripeness of green peas. Kons. i ov. prom. 14 no.7:41-42 J1 '59.  
(MIRA 12:9)

1. Ispolnyayushchiy obyazannosti zaveduyushchego laboratoriyey  
ovoshchnogo i plodo-yagodnogo syr'ya Belorusskogo nauchno-  
issledovatel'skogo instituta pishchevoy promyshlennosti (for  
Savchenko). 2. Laboratoriya ovoshchnogo i plodo-yagodnogo syr'ya  
Belorusskogo nauchno-issledovatel'skogo instituta pishchevoy  
promyshlennosti (for Kharlamova).  
(Peas)

SAVCHENKO, V.F.; POLYAKOVA, N.A.; GOMEL'KO, A.M.; KHARLAMOVA, A.I.

Promising varieties of vegetable cultures for the canning industry  
of White Russia. Trudy BNIIPPT no.4:145-150 '61.

(MIRA 17:10)

L 14172-66 ENT(m)/ENT(j)

WW/RM

ACC NR: AP6003935

SOURCE CODE: UR/0374/65/000/005/0003/0012

AUTHOR: Sukhareva, L. A. (Moscow); Voronkov, V. A. (Moscow); Kalinina, L. Ye. (Moscow); Kharlamova, A. M. (Moscow); Zubov, P. I. (Moscow); Vorontsova, O. I. (Moscow)

ORG: none

TITLE: Investigation of elastomers on the basis of binary and ternary systems

SOURCE: Mekhanika polimerov, no. 5, 1965, 3-12

TOPIC TAGS: elastomer, synthetic rubber, polyamide, polyvinyl chloride, ~~physicomechanical property~~ *solid mechanical property, thermomechanical property*

ABSTRACT: Physicomechanical and thermophysical properties of elastomers on the basis of binary and ternary systems with different ratios of polyamide, polyvinyl chloride (PVC), and rubber have been investigated. The binary and ternary systems with optimal physicochemical properties were chosen on the basis of composition property diagrams. A nonmonotous change of physicochemical properties of films with a certain ratio of the PVC and nitrilo-acrylic acid was observed and is ascribed to chemical interaction. It was shown that stabilization of mechanical properties of polyamide in thermal aging can be accomplished by combin-

Card 1/2

UDC: 678:01.539.37

L 14172-66

ACC NR: AP6003935

ation with binary systems. Orig. art. has: 11 figures and 1 table.  
[Based on author's abstract].

SUB CODE: 11,07/ SUBM DATE: 05Apr65/ ORIG REF: 008/ OTH REF: 002

Card 2/2

KAGAN, Ye.G.; KLEBANSKIY, A.L.; KHARLAMOVA, A.V.

Synthesis of some ethoxysilanes and disiloxanes with  
3,3,3-trifluoropropyl groups. Zhur.ob.khim. 33 no.2:704-705  
F '63. (MIRA 16:2)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut sinteticheskogo  
kauchuka imeni S.V.Lebedeva.  
(Silicon organic compounds) (Propane)

CHILSON, J. L., and TAYLOR, I. L.,

Geography & Geology

Street directory of the city of Moscow. Moskva, Izd-vo Ministerstva Kommunal'nogo khoziaistva RSFSR, 1951 .

Monthly List of Russian Accessions, Library of Congress, June, 1952 UNCLASSIFIED.

L 08321-67 EWT(m)/EWP(t)/ETI IJP(c) JD

ACC NR: AR6033783 SOURCE CODE: UR/0058/66/000/007/D098/D098

AUTHOR: Yegorova, L. A.; Ivashevskiy, S. N.; Kharlamova, G. N. 19

TITLE: Testing spectral tubes with natural krypton 27

SOURCE: Ref. zh. Fizika, Abs. 7D783

REF SOURCE: Tr. in-tov Gos. kom-ta standartov, mer 1 izmerit. priborov  
SSSR. vyp 78(138), 1965, 29-31

TOPIC TAGS: krypton, spectral line, wavelength

ABSTRACT: Results of investigations of the radiation of spectral lamps filled with natural krypton are described. The values of wavelengths of eight lines of the visible region of the spectrum of natural krypton are obtained through comparison with the primary reference wavelengths of the orange Kr<sup>86</sup> line. [Translation of abstract]

SUB CODE: 20/

Card 1/1 nst



BRIGOLLOVA, E. A.

USSR/Chemistry - Electrolytes  
Chemistry - Galvanotechnology

Apr 48

"Electrolytic Zinc Plating in Zinc Electrolytes at High Current Densities,"  
I. T. Kudryavtsov, A. I. Ljovetskaya, K. M. Akhmedova, Lab of Galvanotechnical Metal  
Plating Soc MIIKHILSH, 7, pp

"Zhur Frik Khim" Vol XXII, No 4

Effect of special additions and mixing in zincate electrolytes on the limit of  
permissible cathode current density and the diffusion capacity of the bath was  
investigated. Only additions of Sn, Pb, and Hg have positive effects. Mixing increased  
the upper limit of permissible cathode current density.

Submitted 8 Apr 48

60/49T29

"APPROVED FOR RELEASE: 09/17/2001

CIA-RDP86-00513R000721820019-1

INTER-MOVA K.N.

APPROVED FOR RELEASE: 09/17/2001

CIA-RDP86-00513R000721820019-1"

MORKHOV, M.I., kandidat tekhnicheskikh nauk; KHARLAMOVA, K.N., mladshiy  
nauchnyy sotrudnik.

The cohesion of nickel coatings with chemically pickled, sand-  
blasted steel and mat finish nickel. Sbor.st.NIIKHIMMASH no.15:128-  
139 '54. (MIRA 10:1)

(Nickel plating--Testing)

*K. K. Kharlamova, K.*

MORIKHOV, M.I., kandidat tekhnicheskikh nauk; KHARLAMOVA, K.N., mladshiy  
nauchnyy sotrudnik.

Cohesion of nickel coatings with polished copper, steel, and nickel.  
Sbor.st.NIIKHIMMASH no.15:140-149 '54. (MLRA 10:1)  
(Nickel plating)

*KHARLAMOVA, K. N.*

MORKHOV, M.I., kandidat tekhnicheskikh nauk; KHARLAMOVA, K.N., mladshiy nauchnyy sotrudnik.

Porosity of gold coatings and the corrosion of gilded metals. Sbor.  
st. NIIMHIMASH no. 15:174-195 '54. (MIRA 10:1)  
(Gold plating--Testing) (Corrosion and anticorrosives)

MORKHOV, M.A.; KHARLAMOVA, E.M.; DOKIN, N.I.

Nickel plating of weights of technical weight sets taking into  
consideration their given mass. Izv. tekhn. no.3:31-33 My-Je '57.  
(Weights and measures) (Nickel plating) (MLPA 10:3)

KHARLAMOVA, K.N., Cand Tech Sci -- (diss) "Cohesion of  
nickel plating with electrolytic nickel and steel."  
Mos 1958, 13 pp. with graphs (Min of Higher Education  
USSR. Mos Order of Lenin Chem Tech Inst im ~~Kh~~.D.I.  
Mendeleev) 150 copies (KL, 39-58, 110)

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KHARLAMOVA, K. N.

~~CHARLAMOVA, K. N.~~

PHASE I BOOK EXPIRATION 507/2216

5(4)

Sovetskoye po elektrokimii. 4th, Moscow, 1956.

Trudy... [abornik] (Transactions of the Fourth Conference on Electrochemistry: Collection of articles) Moscow, 1956. 2,500 copies printed.

1956. 863 p. Errata slip inserted. 2,500 copies printed.

Sponsoring Agency: Akademiya nauk SSSR, Otdeleniye Khimicheskikh nauk.

Editorial Board: A. M. Prumkin (Resp. Ed.) Academician, O. A. Yesin, Professor, S. Zhdanov (Resp. Secretary) B. M. Kabanov, Professor, S. I. Zhdanov (Resp. Secretary) V. V. Losev, R. D. Yashin, S. I. Zhdanov, Doctor of Chemical Sciences, V. V. Stender, Professor, Ya. N. Kolobov, Professor, Z. A. Solov'yev, Professor, M. O. Tugorov, Professor, L. I. Prudnikov, Ed. of Publishing House: M. O. Tugorov, and G. K. Prudnikov.

Tech. Ed.: T. A. Prudnikova.

PURPOSE: This book is intended for chemical and electrical engineers, physicists, metallurgists and researchers interested in various aspects of electrochemistry.

COVER-GU: The book contains 127 of the 138 reports presented at the Fourth Conference on Electrochemistry sponsored by the Department of Chemical Sciences, USSR, and the Institute of Physical Chemistry, Academy of Sciences of the USSR. The collection pertains to different branches of electrochemical kinetics, double layer theories and galvanic processes in metal electrodeposition and industrial electrolysis. The majority of reports are given at the end of each division. The majority of reports not included in this collection are mentioned in the references are given at the end of each division.

References are given at the end of each division.

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References are given at the end of each division.



MORKHOV, M.I., kand.tekhn.nauk; KHARLANOVA, K.N., mladshiy nauchnyy sotrudnik.

Cohesion between nickel coating and low-carbon sandblasted steel.  
Trudy NIIKHIMMASH no.28:24-28 '59. (MIRA 15:6)  
(Protective coatings) (Steel)

MORKHOV, M.I., kand.tekhn.nauk.; KHARLAMOVA, K.N., mladshiy nauchnyy  
sotrudnik; SEMIN, V.M., inzh.

Galvanoplastic production of nickel linings for autoclaves. Trudy  
NIIKHIMASH no.28:38-43 '59. (MIRA 15:6)  
(Autoclaves) (Nickel plating)

KHARLAMOVA, K.N., mladshiy nauchnyy sotrudnik; MORKHOV, M.I.; kand.tekhn.  
nauk

Cohesion between nickel coating and nickel, chromium, low-carbon  
and stainless steels and chromium-nickel alloy. Trudy NIIKHIMASH  
no.28:12-24 '59. (MIRA 15:6)  
(Protective coatings) (Nickel plating)

MORKHOV, M.I., kand.tekhn.nauk.; KHARLA'OVA, K.I., mladshiy nauchnyy  
sotrudnik.

Porosity of galvanoplastic nickel coatings. Trudy NIIKHIMASH  
no.28:44-54 '59. (MIRA 15:6)  
(Protective coatings) (Nickel plating)

(Engineer); Verbitskaya, Ye. R. (Engineer) (Engineer); Mikharukova, L. A.

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L 6982-66 EPF(a)/ENP(b)/ENT(c)/ENP(d)/ENP(e)/ENA(f)/ENP(g) LJP(o) KJW/JD/JG/AB

ACC NR: AP5022657

SOURCE CODE: UR/0365/65/001/005/0500/0104

AUTHOR: Kudryavtseva, L. V.; Kharlamova, K. N.; Morkhov, M. I. 56  
B

ORG: All-Union Research and Construction Institute of Chemical Machine-Building  
(Vsesoyuzniy nauchno-issledovatel'skiy i konstruktorskiy institut khimicheskogo  
mashinostroyeniya)

TITLE: The platinum plating of Ti and Ta electrodes in amino-nitrite electrolytes

SOURCE: Zashchita metallov, v. 1, no. 5, 1965, 500-504

TOPIC TAGS: titanium, tantalum, metal plating, platinum, electrolyte deposition

ABSTRACT: The deposition of platinum on Ti and Ta electrodes was investigated. The electrodes were made of BT-1 Ti and TH-3 Ta, and had dimensions of 1x3x100 mm. These were initially cleaned by degreasing and etching, and subsequently used as anodes in two different amino-nitrite electrolytes, coded I and II: I - Pt (in the form  $H_2PtCl_6 \cdot 6H_2O$ ), 10 g/l;  $NaNO_2$ , 280 g/l;  $NH_4NO_3$ , 100 g/l;  $NH_4OH$  (in the form of a 10% solution), 50 g/l; and II - Pt (in the form  $H_2PtCl_6 \cdot 6H_2O$ ), 10 g/l;  $NaNO_2$ , 100-280 g/l;  $NH_4OH$  (in the form of a 10% solution), 1-2%. During platinizing, the

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cathode current density for I and II varied from 2 to 10 amp/dm<sup>2</sup>, and the temperature from 30 to 90°C. The following variables were studied for electrolytes I and II: the internal stress in the coatings, cathodic potential during deposition, the operative durability of the electrolytic solutions, current efficiency, and the porosity and dispersive quality of the Pt coating. In general, electrolyte II performs better - the optimum platinizing conditions are: temperature, 60-70°C; current density, 2-10 amp/dm<sup>2</sup> for the platinizing of Ti and 203 amp/dm<sup>2</sup> for Ta. Curves are given for internal stress (kg/cm<sup>2</sup>) as a function of temperature of electrolyzation, and cathode current density. The change in potential with time is also shown for Ti in electrolytes I and II, and for Ta in electrolyte II, both at 70°C and at a current density of 2 amp/dm<sup>2</sup>. Data on the dependence of cathodic potential during platinization in II vs the duration of electrolyzation for different temperatures is given for Ti. The cathodic potentials decrease with time up to a cut-off point (usually about 2-3 min), while the curve is displaced downwards with increase in temperature. The cathodic potential vs time curve for Ta is higher than that for Ti. The strength of the cohesive Pt coating can be increased by a factor of twenty-five, if the Ti and Ta electrodes are heat treated after platinization. The cohesive strength of Ti changes little in the temperature range 100-700°C (1,2 hrs), but in the interval 750-790°C (1,2 hrs) it increases from 0.3-1.4 kg/mm<sup>2</sup> to a maximum at

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ACC NR: AP5022657

790°C of 25.4 kg/mm<sup>2</sup>; then it decreases gradually above 800°C. The above data is for coating thicknesses of 5-7 μ, since thicker Pt coatings tend to crack readily. Orig. art. has: 4 figures, 2 tables.

SUB CODE: GC,MM/ SUBM DATE: 25Mar65/ ORIG REF: 007/ OTH REF: 001

Card 3/3 *ds*

KHARLAMOVA, K. S., EROKHINA, L. S., OBLENSKAIA, V. I.

Geography & Geology

Street directory of the city of Moscow. Moskva, Izd-vo Ministerstva kommunal'nogo khoziaistva RSFSR, 1951.

Monthly List of Russian Accessions, Library of Congress, June 1952. Unclassified.

~~KHARLAMOVA, K.S.~~; YEROKHINA, L.A.; LAVOCHKIN, M.P., redaktor; DUNINA,  
~~A.N.~~, redaktor; LIL'YE, A., tekhnicheskiiy redaktor

[Moscow street directory; based on data as of April 30, 1955]  
Spravochnik ulits Moskvy; po sostoianiiu na 30 apreliia 1955 g.  
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1. Moskovskaya gorodskaya spravочно-informatsionnaya kontora  
"Mosgorspravka," Moscow. Upravleniya predpriyatiy kommunal'nogo  
obs'luzhivaniya Mosgorispolkoma.  
(Moscow--Streets)

YEROKHINA, L.S.; KHARLAMOVA, K.S.; LAVOCHKIN, M.P., otvetstvennyy redaktor;  
LIL'YE, A., tekhnicheskii redaktor

[Street directory of Moscow; as of November 1, 1956] Spravochnik  
ulits Moskvy. Po sostoianiiu na 1 noiabria 1956 g. Sost. L.S.  
Yerokhina i K.S.Kharlamova. Otvet.red. M.P.Lavochkin. [Moskva, Izd-vo  
"Moskovskii rabochii"] 1956. 494 p. (MLRA 10:1)

1. Moskovskaya gorodskaya spravochno-informatsionnaya kontora  
"Mosgorappravka."  
(Moscow--Streets)

HAZAROVA, O.M.; LOKSHINA, M.D.; POGORELKO, L.V.; TYMYANSKAYA, Ye.A.;  
TIKHOMIROVA, T.S.; MODILEVSKAYA, P.A.; KHARLAMOVA, K.S., LAVOCHKIN,  
M.P., otvetstvennyy redaktor; LIL'YE, A., tekhnicheskyy redaktor

[Moscow; a concise commercial and cultural directory. As of July 15,  
1956] Moskva; kratkaya adresno-spravochnaya kniga. Po sostoyaniyu  
na 15 iul'ya 1956. [Moskva] 1956. 495 p. (MLRA 10:1)

1. Moskovskaya gorodskaya spravочно-informatsionnaya kontora  
"Mosgorspravka," Moscow.  
(Moscow--Directories)

POGORELKO, L.V.; KHAHLAMOVA, K.S.; TIMYANSKAYA, Ye.A.; LOKSHINA, M.D.;  
VIKENT'YEVA, O.V.; LAVOCHKIN, M.P., otv.red.; RACHEVSKAYA, M.I.,  
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[A concise handbook containing addresses of institutions, enterprises, and organizations concerned with cultural and social services for the population of the city of Moscow] 'Kratkii spravochnik adresov uchrezhdenii, predpriatii i organizatsii po kul'turno-bytovomu obsluzhivaniu naselenia g. Moskvy. Po sostoiianiiu na 25 dekabria 1953 g. Moskva, Izd-vo M-va kommun.khoz. RSFSR, 1954. 255 p. (MIRA 13:10)

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KHARLAMOVA, K.N., kand.tekhn.nauk; MORKHOV, M.I., kand.tekhn.nauk; NOVIKOV,  
O.P., inzh.; KORYAGINA, V.V., inzh.

Purification of nickel and copper plating electrolytes by  
the separation method. Khim.mash. no.2:23-26 Mr '62.  
(MIRA 15:3)  
(Nickel plating) (Copper plating) (Electrolytes)

KHARLAMOVA, L., fotolyubitel'

In Italy with the "Kiev" camera. Sov.foto 20 nc.4:46 Ap '60.  
(MIRA 13:8)  
(Italy---Description and travel)



KHARLAMOVA, L.P.; PRONINA, G.Ye., starshiy inzh.

Using new types of strips for spinning machinery. Tekst.prom. 22  
no.1:43-44 Ja '62. (MIRA 15:2)

1. Zaveduyushchiy laboratoriyey fabriki imeni Lakina (for Kharlamova).
2. Laboratoriya fabriki imeni Lakina (for Pronina).  
(Spinning machinery)

KHARLAMOVA, L. V.

KHARLAMOVA, L. V.: "High-speed methods of cutting trenches in rock". Moscow, 1955. Min Higher Education USSR. Moscow Inst of Nonferrous Metals and Gold imeni M. I. Kalinin. (Dissertation for the Degree of Candidate of TECHNICAL Sciences)

SO: Knizhnaya Letopis' No. 51, 10 December 1955

BOGOLYUBOV, B.P., professor, doktor tekhnicheskikh nauk; KHARLAMOVA,  
L.V., gornyy inzhener.

Sharing of the experience acquired and an analysis of the speed of  
trenching in rock. Gor.zhur. no.2:22-29 # '56. (MLRA 9:5)

1. Moskovskiy institut tsvetnykh metallov i zolota imeni Kalinina.  
(Strip mining)

SUKHANOVSKIY, S.I.; AKHMINA, Ye.I.; YEVSTIFEYEVA, E.B.; KHARLAMOVA, M.V.

Chemical composition of the organic and ash parts of hydrolysis  
lignins. *Gidroliz. i lesokhim. prom.* 18 no.5:15-17 '65.

(MIRA 18:7)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut gidroliznoy  
i sul'fitno-spirovoy promyshlennosti.

BRUK, A. M., Docent; VIL'YANSKIY, K. P.; VOROB'YEVA, A.; KHENELEVA, N.

Heart - Diagnosis

Methods of experimental contrast angiocardiology. Vest. rent. i r.d. No. 1, 1953.

Monthly List of Russian Accessions, Library of Congress, June 1953. Uncl.

KLIMOVA, O.M.; KURAS, A.M.; STEPANOV, V.V.; KHARLAMOVA, N.I.

Synthesis of polyvinylene glycol derivatives. Zhur.prikl.  
khim. 37 no. 5:1152-1155 My '64. (MIRA 17:7)

1. Leningradskiy Tekhnologicheskii institut imeni L'ensoveta.

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KHARLAMOVA, N.T.

Synoptic and climatic characteristics of fogs in the Nikolaev  
region. Trudy UkrNIGMI no.32:36-40 '62. (MIRA 16:11)



KHARLAMOVA, N.V.

136-6-10/26

AUTHOR: Vorob'yev, G.M. and Kharlamova, N.V.

TITLE: Micro-structure of Aluminium with Different Silicon and Iron Contents. (Mikrostruktura alyuminiya pri razlichnom sodержanii kremniya i zheleza)

PERIODICAL: Tsvetnyye Metally, 1957, No.6, pp. 48 - 52 (USSR)

ABSTRACT: Little work has been done on the deleterious effect of silicon on the properties of aluminium and the considerable number of researches on the corresponding effect of iron have been mainly on such high-silicon and high-iron systems that the results are not entirely relevant to technical aluminium. In the present work the character of the structural components of the following alloys was studied by micro-structural examination (photo-micrographs are shown): Al - 2% Fe, Al - 2% Fe - 0.1% Si, Al - 1% Fe - 0.3% Si and Al - 0.3% Fe - 1% Si. The alloys were prepared by two methods: that of Lavrov and that of casting into chill moulds, from AVOOO grade aluminium and Al-Fe and Al-Si alloys. The thin-walled ingot moulds used in the Lavrov dipping method were pre-heated to 500-550 °C, the chill moulds to 100-110 °C. In hyp-eutectic alloys without silicon a very fine eutectic structure was obtained. The structure coarsened as 0.1 to 0.3% silicon was added both to

Card 1/2 hypo- and also to hyper-eutectic alloys, partial or complete

Micro-APPROVED FOR RELEASE: 09/17/2001 CIA-RDP86-00513R000721820019

Micro-structure of Aluminium with Different Silicon and Iron Contents. transformation of the eutectic into needle-like formations of the ferruginous component being obtained with the latter when chill-mould cast. All types of primary aluminium are hyper-eutectic (with respect to iron) and in these the fine eutectic structure is preserved when the iron content is > the silicon content; when the converse holds, the eutectic structure is lost and the iron-silicon component assumes the form of coarse needles situated at grain boundaries. The authors suggest that if these changes could explain the tendency of aluminium to hot-crack formation elements capable of modifying the structure of the second phase should be added. There are 6 figures and 3 Slavic references.

ASSOCIATION: VAMI

AVAILABLE: Library of Congress

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SOV/137-58-7-15909

Mechanical Properties of Al-Zn-Mg-Cu Alloys (cont.)

observed in the variations in  $\delta$  at a given Zn content. 4. An increase in Zn content from 6 to 10% is accompanied by an increase in  $\sigma_b$  and a decrease in  $\delta$ . At 10% Zn in certain cases  $\sigma_b$  attains 70 kg/mm<sup>2</sup> at 7%  $\delta$ .

1. Aluminum alloys--Mechanical properties 2. Copper--Metallurgical effects 3. Manganese--Metallurgical effects 4. Zinc--Metallurgical effects

N. R.

Card 2/2

KHARLAMOVA, N. YA., I. O. ST. NAUCHN. SOTR.

SIL'VESTROV, A. D., KAND. SEL'SKOKHOZYAYSTVENNYKH NAUK AND OSOLOVSKIY, G. YE., KAND. BIOLOG. NAUK

LENINGRADSKIY NAUCHNO-ISSLEDOVATEL'SKIY INSTITUT AKADEMII KOMMUNAL'NOGO KHOZYAYSTVA IM. K. D. PAMFILOVA

EKSPERIMENTAL'NAYA PROVERKA DOLGOVREMENNOSTI DEYSTVIYA ANTYSEPTIKOV, PRIMENYAYEMYKH PRI KAPITAL'NOM REMONTE ZHILOGO DOMA. PAGE 41

SO: SBORNIK ANNOTATSIY NAUCHNO-ISSLEDOVATEL'SKIKH RABOT PO STROITEL'STVU, MOSCOW, 1951

ALEXANDROV, G.A.; KARLOVA, G.T.; PAVLOV, I.I.

Production of phthalic anhydride. Khim. tekhn.-ker. inform. Gos. nauch.-  
issl. inst. univ. i tekhn. inform. 12 no.4:9-11 Ar '65.

(MIRA 18:6)

KHABLAMOVA, S.

We wish them luck, Zdorov'e 6 no.1:16-17 Ja '60.  
(HEART--SURGERY)

(MIRA 13:4)

KHARLAMOVA, S. (Ryazan')

In the Ryazan countryside. Zdorov'e 6 no.3:7-8 Mr '60.

(MIRA 13:5)

(RYAZAN PROVINCE--COLLECTIVE FARMS)

KHARLAMOVA, S.

Before and after illness. Zdorov'e 6 no.8:11-12 Ag '60.

(MIRA 13:8)

(DYSENTERY)

KHARLAMOVA, S.

The invisible reveals its secrets. Zdorov'e 6 no.12:7-8 7 '60.

(MIRA 13:12)

(INFLUENZA)

(VIRUS RESEARCH)



KHARLAMOVA, S.

We are confident of success. Zdorov'e 7 no.10:26-27 0 '61.

(OKTYABR'SKIY--TUBERCULOSIS--HOSPITALS AND SANATORIUS)  
(MIRA 14:10)

KHARLAMOVA, S.

Familiar and new features. Zdorov'e 7 no.11:21-22 N '61.

(MIRA 14:11)

(SEVASTOPOL—PUBLIC HEALTH)

KHARLAMOVA, S.

Human beauty. Zdorov'e 8 no.4:3-4, Ap '62.  
(BEAUTY, PERSONAL) (HYGIENE)

(MIRA 15:2)

KHARLAMOVA, S.

First at ' Zdorov'ie 9 no.1:4-5 Ja'63.  
(MOSCOW--AMBULANCE SERVICE)

(MIRA 16:7)

KHARLAMOVA, S.A.

Sincere people, skilled hands. Zdorov'e 5 no.2:16-17 7 '59.  
(MIRA 12:2)

(MOSCOW--HOSPITALS)

KHARLANOVA, T. A.

NABOKOV, V.A.; POPOV, S.D.; LAYUKHIN, M.A.; ~~KHARLANOVA, T.A.~~

The helicopter and prospects for use in the control of arthropod vectors of human disease [with summary in English]. Med.paraz. i paraz.dol. 26 no.1:5-11 Ja-F '57. (MLRA 10:6)

1. Iz sektora profilaktiki infektsiy Instituta malyarii, meditsinskoy parazitologii i gel'mitologii Ministerstva zdoravookhraneniya SSSR (dir. instituta - prof. P.G.Sergiyev, zav. sektorom prof. V.A.Nabokov)

(ARTHROPODS, prev. and control  
insecticide spraying with helicopter)

(INSECTICIDES  
spraying with helicopter)

ABRAMOV, V.V.; KHARLAMOVA, T.I., red.; VERKHOVSKIY, A.V., tekhn.red.

[Investigation of stresses and displacements by means of the method of the dismemberment of a body] Issledovanie napriazhenii i peremeshchenii metodom raschleneniia tela. Gor'kii, Politekhnikheskii in-t, 1960. Lecture 1.[General solution of the problem of calculating stresses and displacements in straight rods] Obshchee reshenie zadachi o vychislenii napriazhenii i peremeshchenii v priamykh sterzhniakh. 12 p. Lectures 2-4.[Tension and compression of a straight rod. Bending of a straight rod. Cold and hot straightening of rods] Ras-tiazhenie - szhatie priamogo brusa. Izgib priamogo brusa. Kholodnaia i goriachaia pravka sterzhnei. 53 p. (MIFA 17:2)

81355

S/181/60/C02/03/09/028  
B006/B017

24.7700

AUTHORS: Kharlamova, T. Ye., Kholuyanov, G. F.

TITLE: Electrical Properties<sup>21</sup> of Melt p-n Junctions<sup>21</sup> in Silicon Carbide

PERIODICAL: Fizika tverdogo tela, 1960, Vol. 2, No. 3, pp. 426-433

TEXT: The light-green  $\alpha$ -SiC<sup>21</sup> single crystals (n-type) which were necessary for the investigations were supplied by the Zaporozhskiy karborundovyy zavod (Zaporozh'ye Carborundum Works); the resistivity of the crystals was 2 - 2.5 ohm.cm. The production of the element with which the investigations were carried out is described at the beginning. It is schematically shown in Fig. 1. It consisted of several layers of varying diameters of W, Si + WC, n-type SiC, p-type SiC, and Si-Al alloy which fused in hydrogen atmosphere. The current-voltage characteristics of these elements (Figs. 2 - 5) were recorded in the temperature range 20 - 500°C. For the p-n junction, the saturation current was calculated

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Electrical Properties of Melt p-n Junctions  
in Silicon Carbide

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BG06/B017

from the formula  $I_s = S e \frac{D_p N_c N_v}{L_p n_n} \exp(-E_g/kT)$ , where S is the p-n junction area (in the samples investigated 0.011 and 0.018 cm<sup>2</sup>),  $D_p$ , the hole diffusion coefficient, was assumed to be 0.25 cm<sup>2</sup>/sec and the electronic mobility  $n_n$  to be 100 cm<sup>2</sup>/sec.v. The width of the forbidden zone  $E_g$  was 2.86 ev. The time constant of the decrease in recombination luminescence for both samples was between 1 and 0.2 μsec, so that with a hole diffusion length between 5 and 0.5 μm and at 20°C the saturation currents were computed to be between 10<sup>-38</sup> and 10<sup>-37</sup>a. On the basis of measurements of the dependence of the intensity of recombination luminescence on the voltage, the rules governing the increase of the current component due to diffusion with increasing voltage were investigated. For the direct direction in sample 1 it is found that the diffusion component increases proportionally to  $\exp(eV_1/1.4 kT)$ , in sample 2 proportionally to  $\exp(eV_1/3kT)$ . In these investigations the voltages were below 2.5 v. In the following, a report is given on investigations of the influence exercised by defects and current leakage in p-n junctions on current-

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Electrical Properties of Melt p-n Junctions  
in Silicon Carbide

S/181/60/002/03/09/028  
B006/B017

voltage characteristics. In the entire voltage range investigated the reverse current increased with increasing voltage more rapidly than linearly. In the range of strong reverse currents phenomena were observed, which indicated the avalanche-like character of the discharge at the periphery of the p-n junction and in the region of the defects. Finally, capacitance measurements of p-n junctions and their voltage and temperature dependences are described. A possibility of using p-n junctions in silicon carbide as nonlinear condensers is discussed. In conclusion, the authors thank Professor N. P. Bogoroditskiy and V. V. Pasyukov for their interest, as well as E. A. Violin and F. G. Tomashpol'skiy, students of LETI, for their assistance in the experiments. O. V. Losev is mentioned. There are 6 figures and 14 references: 3 Soviet, 7 US, 2 German, and 1 Swiss.

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SUBMITTED: June 4, 1959

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APPROVED FOR RELEASE: 09/17/2001

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9,4310 (1139, 1150, 1159)  
15.2420

28214  
S/194/61/000/005/048/073  
D201/D303

AUTHOR: Kharlamova, T.Ye.

TITLE: Manufacturing technology of silicon carbide rectifying elements

PERIODICAL: Referativnyy zhurnal. Avtomatika i radioelektronika, no. 5, 1961, 4, abstract 5 D34 (Izv. Leningr. elektrotekhn. in-ta, 1960, no. 43, 135-140)

TEXT: At 18-20°C the width of the forbidden zone of the silicon carbide is about 3 eV, the effect being that the rectifying properties of SiC are retained at much higher temperatures than those of Ge and Si. The intrinsic electrical conductivity occurs at temperatures > 1000°C. The intrinsic electrical conductivity of SiC p-n junctions at 20°C is of the order  $10^{-15}$  ohm<sup>-1</sup> cm<sup>-1</sup>. The junctions sustain large reverse voltages at very small reverse currents. The SiC has not liquid phase; the vaporization temperature is about 2500°C. P-n junctions in SiC crystals may be made

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Manufacturing technology...

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taining p-n junctions should be carried out in the atmosphere of purified  $H_2$  which was obtained by the electrolysis method. For purification  $H_2$  was passed through a heated palladium filter and containers with calcium chloride. The results of the analysis of the samples obtained will be given in the next article 6 references [Abstracter's note: Complete translation]

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Card 3/3

1026

24,7800 (1136, 1145, 1153)

S/058/61/000/005/034/050  
A001/A101

AUTHORS: Kholuyanov, G.F., Kharlamova, T.Ye.

TITLE: Properties of p - n transitions in silicon carbide

PERIODICAL: Referativnyy zhurnal. Fizika, no 5, 1961, 292, abstract 5E428 ("Izv. Leningr. elektrotekhn. in-ta", 1960, no 43, 141 - 149)

TEXT: The authors investigated electric properties of molten-in p - n transitions in SiC. Voltampere and capacitance characteristics were measured in the temperature range from room temperature to 500°C (at heating up to 600°C an irreversible increase of reverse current through the transition was observed). The maximum current density of  $\sim 90$  amp/cm<sup>2</sup> was determined for specimens investigated. The voltampere curves in the back direction have the appearance (in semi-logarithmic scale) of a broken line composed of three straight sections with increasing slope. The positions of the deflection points relative to the axis of stresses depends on temperature insignificantly. The experimental data obtained can not be explained with the aid of the simple diode theory. It is assumed that leakage currents play an essential part in transitions from SiC, and the current through the transition in the back direction is determined by them entirely. The

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Properties of p-n transitions in silicon carbide

S/058/61/000/005/034/050  
A001/A101

form of dependence of the diffusion component of direct current was determined from the voltage dependence of intensity of the yellow-green luminescence in the transition. The results obtained agree well with the estimate of diffusion length of holes, made on the basis of measuring the time constant of luminescence fading. It is assumed that the non-linear growth of reverse current through the transition is, already at low voltages, connected with ionization by the electric field of impurities which are still available in the given temperature range. Electric field intensity, estimated from capacitance measurements, turn-out to be  $10^6$  v/cm. Apparently, near various defects of the lattice field intensity is considerably higher. At high voltages at the transition, the growth of current is due to cascade spark-over. Investigations of capacitance characteristics of transitions from SiC have shown that the capacitance of the transition did not practically change with frequency with the range from 0.1 to 75 kc and increased with the temperature rise. It is presumed that p - n transitions from SiC can be utilized as non-linear capacitors in the mode without bias in the back direction.

V. Pokalyakin

[Abstracter's note: Complete translation.]

Card 2/2

ACCESSION NR: AP4013538

S/0181/64/006/002/0642/0644

AUTHORS: Kharlamova, T. Ye.; Tairova, D. A.

TITLE: The effect of radioactive radiation on the properties of silicon carbide p-n junctions

SOURCE: Fizika tverdogo tela, v. 6, no. 2, 1964, 642-644

TOPIC TAGS: radioactive radiation, silicon carbide, p n junction, volt ampere characteristic, transitional photoelectric effect, photosensitivity, impurity, impurity concentration

ABSTRACT: The authors used electron-type samples of SiC (with alpha modification) with impurity concentrations on the order of  $5 \cdot 10^{17} \text{cm}^{-3}$ . The p-n junctions were prepared by a technique previously described by T. Ye. Kharlamova (Izv. LETI im. V. I. Ul'yanova (Lenina), vyp. XLIII, 135, 1960; and T. Ye. Kharlamova, G. F. Kholuyanov. FTT, 2, 426, 1960). Each crystal was cut into two plates, only one being exposed to radiation for control. Radiation, varied from 3000 to 28 000 roentgens seemed to effect only insignificantly quantitative changes in the characteristics of the p-n junctions in SiC. Radiation of all p-n junctions

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ACCESSION NR: APH013538

by gamma rays or beta quanta produced definite patterns of changes in the volt-ampere characteristics. These patterns are shown in Fig. 1. in the Enclosure. Mixed radiation led to the appearance of a transitional photoelectric effect. The p-n junctions in SiC after such irradiation become sensitive to the visible part of the spectrum. The photosensitivity of the p-n junctions was shifted toward the longer wavelengths. This shift may be due to metastable energy levels in the SiC due to the action of gamma rays plus neutrons. Orig. art. has: 1 figure.

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SUBMITTED: 28Sep63

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EXCL: 01

SUB CODE: PH

NO REF SOV: 006

OTHER: 001

Card 2/β 2

KAGANSKIY, I.M.; MUKHLYA, G.S.; KHARLAMOVA, V.M.; NAUMOV, V.A.

Solubility in the system urea- phosphoric acid - water.  
Zhur.prikl. khim. 37 no. 5:1111-1116 My '64. (MIRA 17:7)



TUR'YAN, Ya.I., kand.tekhn.nauk; SNEKALOVA, V.V.; KHARLANOVA, V.H.

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production of ammonium nitrate. Khim.prom. no.3:679-681 D '60.  
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1. Lisichanskiy filial Instituta avtomatiki Gosplana USSR.  
(Ammonium nitrate)

ADAMS, V. N., ALPINE, I. B., ZHURSKIY, I. B.

"Depolymerization of Sodium Desoxyribonuclease under the action of Ultrasonic waves"

Laboratory of the Biochemistry of Cancer, USSR Acad. Sci. Rec'd 20 Jan. 1951

Doklady Akademii Nauk SSSR, 77, No. 3, pp 439-441, March 1951

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OTHER: 000

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